## MANUFACTURING CHEMIST

and Manufacturing Perfumer

## Index to Volume XXX, 1959

\*\*ACCIDENTS in a Fine Chemicals Factory, How to Avoid," by Stanley Price, 441
Acne treatment, 298
Additives in animal feeds regulations, 220
Addenosine triphosphate detector, 348
Adhensive in bar form, 137
Advertising code for ethicals, A.B.P.I., 230
Advertising of medicines, 431
"Aerosol Insecticides, Formulation of," by Wm. Mitchell, 101
Aerosols: composition (pat.), 344 "Aerosol Insecticides, 531
by Wm. Mitchell, 101
Aerosols:
composition (pat.), 344
hair-sprays and cancer, 413
perfumes for, 394
Afghanistan tabletting plant, 512
"African Rauwolfia, a Guide,"
by W. E. Court and G. E. Trease, 53
"Agar Films as Ultrafilters,"
by G. A. Flint and O. C. Forbes, 493
Air conditioning:
control system, 115
dust collectors, 114
filters, self-cleaning, 114
filters, self-cleaning, 114
filters, self-cleaning, 114
filters, sir, 113
heater, battery, 114
heating and ventilating systems for chemical factories, 109
radiators, panel, 114
space conditioners, 115
Air santisers, 321
Alkaloids:
determination (p.r.), 125, 293
emetine, 286
Aminoacylphenothiarines, quaternary (pat.), 344
"Amphoteric Surface Active Agents,"
by D. Bass, 105
Analgesics:
antibiotic atomiser, 46
anileridine, 203
from Scasoola spinstems, 469
2 hydroxy - 5,9 - dimethyl - 2(2 - phenylethyl) 6,7-benzomorphan, 100
hypnotic/analgesic, 470
oral, 181
phenylbutazone (p.r.), 124, 291, 500
"Analytical Equipment Demonstrated,"
by S. F. Bennett, 313
Angina, treatment of (p.r.), 117
Antibacterials;
chlorinated bisphenol (p.r.), 213
"Antibacterials;
by R. Levin (p.r.), 162
Antibotics Manulacture, How Biochemical hotibacterials; chlorinated bisphenol (p.r.), 213
'Antibiotics,"
by R. Levin (p.r.), 162
Antibiotics Manufacture, How Biochemical Engineering Can Cut Costs in,"
by J. F. Thorley and J. J. H. Hastings, 145
hutibiotics:
air sterilisation in manufacture, 147
Amphotericin B, 298
analysis of (p.r.), 125, 292, 591
anti-mitotic (p.r.), 163
aureomycin, 2
fermentation, continuous, 148
fire ant venom, 306
food preservation with (p.r.), 162
griseofulvin ringworm treatment, 271
helenine, 470
heptamycin, 424
in cosmetics, 275
Ledermycin, 512
life assurance aspects, 509
oral, antifunçal, 226
penicillin:
6-amino-penicillanic acid, isolation of, 143
Broxil, 433
Distaguaine V-K suspension, 386
4H control in manufacture, 150

**GUIDE TO PAGE NUMBERS** July 275-302 August 303-346 September 347-388 October 389-430 November 431-472 December 473-520 1-48 49-96 Article headings are in quotation marks Key to abbreviations: Abstracts (abs.), Reference in Progress Report (p.r.), and

The following group headings are used.

Air conditioning Analgesics Antibiotics Book Reviews Company finance Cosmetics Detergents Drugs Essential oils Fertilisers Fire Prevention Fungicides Hormones Hypertension Insecticides Instruments and

apparatus

Laboratory Packaging Perfumery Pesticides Plant and equipm Plastics Polio vaccine Safety Soap Veterinary medicines Vitamins

Antibiotics (continued)
plant disease (p.r.), 163
production in India (p.r.), 164
restrictions urged, 87
ringworm treatment (p.r.), 163
staphylococci resistant (p.r.), 164
tetracycline:
Cyanamid's patent action, 138, 222
tetrahydroaminacrin (p.r.), 119
xanthocillin, 139
Anticholinergies;
long-acting, 386
(p.r.), 327
Anticoagulants (p.r.), 117, 326 long-acting, asso (p.r.), 327 pr., 117, 326
Anticonvaluants (p.r.), 329
Anticdepressive, 427
Antiemetics (p.r.), 119
Antifoam, allicone, 386
Antifungal activity of oils (p.r.), 214
Antibamophilic globulin, 93
Antihistamines analysis (p.r.), 125
Antimalarials, Lapudrine, 46
Antioxidants for soap, 324
Antivivisectionists, illogical attitude, 51
Arcino., new coding, 177
Arenco-Altie merger, 420
Argentine: Arenco-Alite merger, 420
Argentine:
Duperial expansion, 341
essential oil industry, 425
Naarden factory, 43
Arsenic as carcinogen in tobacco, 52
Arsenic arya, abandonment of (\$\rho x\$.), 412
Aspirin:
aluminium, 469
improved, 380

Aspro-Askit link-up, 338
Association of British Chemical Manufacturers:
annual dinner, 420
directory, 489
Association of British Pharmaceutical Industry,
annual dinner, 220
Atomic bombs, chemical production, 341
Australis:
chemical and drug factories, 383
Cyanamid International's expansion, 469
Drug Houses of Australia, distribution centre in
Brisbane, 269
I.C.I. headquarters, 43
petro-chemicals industry, 179
Shell detergent plant, 138
Shulton products to be made, 469
sulphuric acid bounty, 311
Austria, Dragoco buy Schimmel, 424
"Mutocidation—A New Process for Making Hydrogen
Peroxide," 8
Arulene in depilatories, 68

BACTERICIDES; for sheep pelt soaking pits (p.r.), 75 in cosmetics, 399 Bacteriostat losses from injections (p.r.), 75 Beecham's factory at Worthing, 267 Belgium:

Belgiam Congo, essential oils, 25, 71, 240
Belgiam:
Croda's new factory, 92
polyethylene plant, new, 92
Bell, Janob, centenary, 187
Bell, John, (L.), 244
Benzene, demand for chemically pure, 390
Berlin, pharmaceutical industry, 188
Biochemical engineering, how it can cut costs in antibiotics manufacture, 145
Biological research, Boots' new centre, 418
Biological of chemical manufacture, 304
Blood agar base, 226
Bloodwood, antibacterial (p.r.), 370
Book Reviews:
"American Drug Index 1959," by C. O. Wilson

sid agar base, 226
dwood, antibacterial (p.r.), 370
k Reviews:

"American Drug Index 1959," by C. O. Wilson and T. E. Jones, 336
"Analytical Uses of Ethylenediamine Tetra acetic Acid," by Frank J. Welcher, 170
"Annuaire des Produits Chimiques et de la Droguerie," 74th ed., 217
"A Short Guide to Chemical Literature," by G. Malcolm Dyson, 2nd edn., 336
"Aspects of the Organic Chemistry of Sulphur," by F. Challenger, 462
"B.D.H. Book of Organic Chemistry of Sulphur," by F. Challenger, 462
"B.D.H. Book of Organic Reagents," 10th edn., 130
"Biochemistry of Some Peptide and Steroid Antibiotics," by E. P. Abraham, 81
"Chemical Engineering Data Book," by T. K. Ross and D. C. Freshwater, 24th edn., 33
"Chemist and Druggist Year Book," 336
"Chemistra and Druggist Year Book," 336
"Chemistra and Druggist Year Book," 336
"Chemistry of Drugs," by N. Evers and D. Caldwell, 3rd edn., 462
"Colorimetric Chemical Analytical Methods," 5th edn., 217
"Compend. Addendum for 1957," by W. Hetherington, 336
"Cosmetic Products and their Perfuming," 337
"Cosmetic Recips Book," by H. Goodman, 336
"Cosmetic Recips Book," by H. Goodman, 336
"Crushing and Grinding," 83
"Citimary of Named Effects and Laws in Chemistry" by D. W. G. Ballentyne and L. E. Q. Walker, 130
"Dictionary of Named Effects and Laws in Chemistry" by D. W. G. Ballentyne and Directory of Opportunities for School Leavers," 386
"Distinged Compenies Steaters 165, 85, 80
"Set 185, 80
"Set 185

Directory of Opportunities of Schools, 83
336
Disinfection and Sterilisation," by G. Sykes, 83
Dirug and Cosmetic Catalog 1958-59," 261
Economic Development of Detergents," by
W. J. Corlett, 81
Encyclopedia of Chemical Reactions," by G.
Jacobson, et al., Vol. 8, 462

Broxil, 433
Distaquaine V-K suspension, 386
pH control in manufacture, 150

ok Reviews (antinued)

"Exercises in the Evaluation of Drugs and
Surgical Dressings," by E. J. Shellard, 261.

"Fluorocarbons," by M. A. Rudner, 33

"Gas Chromatography 1938," edited by D. H.
Desty, 217

"Guide Book to Biochemistry," by K. Harrison,
303.

"Handbook of Toxicology, Vol. 4. Tranguila Handbook of Toxicology. Vol. 4—Tranqu lisers," by M. Gordon and R. F. J. McCandle Plantonou of Louzonogy. Vol. 4—I ranguilisers," by M. Gordon and R. F. J. McCandless, 419
Lon Exchangers in Organic and Biochemistry," edited by C. Calmon and T. R. E. Kressman, 170
Lodes of Chemistry Films," 306
Kometische Chemie," 306
Library of Medicinal Plants," by H. G. De Lazko, 337
Madison Avenue U.S.A.," by Martin Mayer, 82
May's Chemistry of Synthetic Drugs," 5th edn. Revised by G. Malcolm Dyson and P. May, 378
Merchants of Life," by T. Maboney, 375
Modern Pharmacognosy," by Egil Ramstad, 376
New and Nonofficial Drugs 1959," 217 New and Nonofficial Drugs 1959," 217
Pasteur Fermentation Centennial," 130
Pentaerythritols," by Berlow, Barth and Snow, 130 Pentaerythritols," by Berlow, Barth and Snow, 130

Perfumes, Cosmetics and Soaps," by W. A. Poucher, Vol. I, 6th edn. revised, 419

Pharmacology of Plant Phenolics," edited by J. W. Fairbairn, 170

Pharmaceutisches Worterbuch," by Curt Hunnius, 3rd edn., 482

Physical Chemistry of Electrolytic Solutions," by H. S. Harned and B. B. Owen, 81

Poisoning by Drugs and Chemicals," by Peter Cooper, 261

Practical Formularry," by W. R. Minrath, 376

Pressurised Packaging (Aerosoh)," by A. Herzka and J. Pickhall, 61

Principles of Electrolysis," by C. W. Davies, 337

Principles of Oxidation and Reduction," by A. G. Sharpe, 357

Quantitative Analysis," by W. Conway Pierce, Edward L. Heimisch and Donald T. Waweyer, 261 A. G. Sharpe, 337

"Quantitative Analysis," by W. Conway Pierce, Edward L. Heimisch and Donald T. Wawyer, 261

"Reports on the Progress of Applied Chemistry, Vol. 42, 1937," 82

"Schimmel Briefs, vol. 2," 130

"Science in Industry—Policy for Progress," by C. F. Carter and B. R. Williams, 473

"Source Book of Industrial Solvents," by I. Mellan, 508

"Steroids," by L. and M. Fieser, 462

"Tabellenbuch Chemie," 82

"Who Owns Whom," 305

Boots Pure Drug Co. Ltd.:
expansion, 189
research centre, 418
research objectives, 481
Soutish factory, 242
Boric acid-water-sorbitol solutions (\$\rho\_x\$.), 75

Bowmans Chemicals Ltd., lactic and plant, 249
Brake fluids, 321
Brazil, fertilisers plant, 383

"Breeding Laboratory Animals for Pharmacological Research, A New Venture in," by D. G. Davey, 351

British Chemical Plant Manufacturers' annual dinner, 433, 465

British Chemical Plant Manufacturers' annual dinner, 433, 465

British Oxygen Gases Ltd., new plant, 39

"British Oxygen Gases Ltd., new plant, 39

"British Chemical Plant Manufacturing Laboratories Ltd., Hazel Grove, Stockport, expansion, 189
Bronchitis, Lossučer, 434
Budgerigar tonic, 271

"Burma Pharmaceutical Industry,"
by R. W. Oxtoby, 5
Bush Beach and Segner Bayley Ltd. formed, 421
Butler, E. H. and Son Ltd., Leicester, expansion, 189

CACTI, drugs from, 232
Canada, Electric Reduction Co.'s plans, 178
Cancer cure, I.C.I. denial, 133
Candie factory, new, 3
Capsules, hard gelatin, Eli Lilly plant, 233
Carsules t (pst.), 344
Carrageenin, ulerr treatment, 470
"Ceylon, Lemoograss Oil from,"
by M. G. De Silva, 415
Chambers, S. T., designated chairman of I.C.I., 304
Chemical engineering, organic chemicals plant, 448
"Chemical Engineering and Process Research at New D.S.I.R. Laboratory," 278
"Chemical Market," 48, 94, 139, 182, 226, 272, 342, 384, 428, 449, 468, 513
Chemical Market," 48, 94, 139, 182, 226, 272, 342, 384, 428, 449, 468, 513
Chemical Protection against Radiation," by M. J. Ashwood-Smith, 354
Chemical Protection disbandment, 173
Chymotrypain, muscolytic enzyme, 434

Ciba Laboratories Ltd., Horsham, Sussex, expansion, Ciba Laboratories Ltd., Horsham, Sussex, expansion, 190
C.N.S. depressants (p.r.), 328
Coal chemicals committee, 507
Coal surplus, 131
Colds, Coldva, 470
Colgate-Palmotive's new factory in Italy, 497
Colg, reactivation of chlorine-inactivated (p.r.), 370
Companies, new, 47, 93, 139, 181, 228, 274, 301, 345, 388, 427, 472, 514 Companies, new, 47, 93, 139, 181, 228, 274, 301, 3
388, 427, 472, 514
Company Finance:
Albright and Wilson Ltd., 222, 288, 382, 422
Beecham Group Ltd., 134, 346, 509
Berk, F. W. and Co. Ltd., 288
Beots Fure Drug Co. Ltd., 240, 468
Boots Fure Drug Co. Ltd., 340, 468
Borax (Holdings) Group, 134, 382
Bowmans Chemicals Ltd., 134
British Oil and Cake Mills Ltd., 222
British Oil and Cake Mills Ltd., 222
British Oil and Cake Mills Ltd., 222
Corofield, Joseph and Sons Ltd., 222
Corofield, Joseph and Sons Ltd., 222
Distillers Co., 382
Evans Medical Supplies Ltd., 222, 268, 509
Glaxo Laboratories Ltd., 222, 509
Gossage, William and Sons Ltd., 222
Griffith Hughes, 340, 509
Hedley, Thos., 509
Hickson and Welch (Holdings) Ltd., 176
Hoffed Ltd., 176
Imperial Chemical Industries Ltd., 176, 422
Knight, John Ltd., 176
K. W. Chemicals, 268
Laporte, 340
Metal Box Co. Ltd., 41
Mossanto Chemicals Ltd., 222, 382
Powell Duffryn, 382
Unilever Ltd. and Unilever N.V., 176, 509
"Gomputers and Process Control,"
by C. H. Copley, 14
Computers;
analogue and digital, 17 by G. H. Copley, 14

Computers;
analogue and digital, 17
plant control, 13, 14, 15

Containers, flexible, Dracones, 276

Contraceptives;
official view, 303

Contrast agents (p.s.), 118

Consumer advice organisations, 49

Co-operative Wholesale Society's new laboratory, 421

Copper "prophylactic" effects, 433

Coronary dilator (ps.), 327

Corrosion Exhibition, 166, 186

Corticotteroids;
for dermatitis, 226

hydrocortisoue eye cream, 181 hydrocortisone eye cream, 181 Millicorten, 386 new, 46 Cosmetic Science, British Congress of, 35, 141, 156, 294
"Cosmetics and Toilet Preparations," by W. W. Myddleton (μ.τ.), 29, 412
Cosmetics: allantoin in (μ.τ.), 414
allergy, 205
ambergris substitute, 511
analysis (μ.τ.), 294
antibiotics in, 275
antiperspirant formula (μ.τ.), 414
colours, official approval of (μ.τ.), 413
colours (μ.τ.), 413
congress programme (l.), 129 cotours, official approval of (p.r.), 413
colours (p.r.), 413
colours (p.r.), 413
congress programme (l.), 129
cream bases for, 398
cream, formule, 322, 333
deodorants;
hrush-on, 226
Mist, 271
perfumes for, 237
dermatological action, 204
emulsifying agents, 397
demulsions, inversion (p.r.), 29, 39
fatty acid derivatives, 390
for older women, 59
glycol ingredients, 322
hair spray shazard, 347
hydrophile-lipophile balance requirements of (p.r.), 30
lanolin derivatives, 398
lipsticks;
base, 400
indelible (p.r.), 413 base, 400 indelible (p.r.), 412 three-phase (p.r.), 412 three-phase (p.r.), 412 totions, formulae, 322 Max Factor factory, Bournemouth, 239 pearl essence, 399 powders, 400 product testing, 157 preservatives and bactericides, 399 resin and cellulose derivatives, 400 rheology, 138, 303 silicones, 400 skin penetration (p.r.), 30 softening agent, 180 sun-tan preparations: perfuming, 490 photosensitisation, 490 surface active agents, 397 Ulay, oli of, 427 Cosmetic Chemists, International Federation of Societies of, 185, 420 "Cosmopoetics," by John Brooks, 492 Cough medicine, objection to normethadone, 92 Culture tubes, plastic, 513 base, 400 indelible (p.r.), 412

Cyanamid of Great Britain Ltd., Gosport, Hants., expansion, 189 Cytostatics (p.r.), 120 Grechoslovakia, antibiotics symposium, 43 DANGEROUS goods, shipping regulations, 80
Dehydroacetic acid (pat.), 344
Demulsifying agent, 298
Denture cleaner, 512
"Depilatories, Non-irritant,"
by T. A. Ruemele, 68
Depalminum in myasthenia gravis (p.r.), 327
Depalma-P, for dermatones, 180
"Design of Microbiology Laboratories,"
by G. Sykes, 311
"Design of Organic Analytical Laboratories,"
by G. Ingram, 307
"Detergents and Detergency,"
by Leon Raphael (p.r.), 258, 459
Detergents: by Leon Raps.

Detergents:
alkanolamides (p.r.), 460
analysis (p.r.), 124, 500
British market for (p.r.), 461
Consumer Association survey (p.r.), 461
European production (p.r.), 258
foamless, 186

14 (p.r.), 259 foamless, 188 liquid ( $\rho_{x'}$ ), 259 Lyril tollet bar, 305 nonionic, solid, 93 perfuming problems ( $\rho_{x'}$ ), 459 petroleum recovery ( $\rho_{x'}$ ), 459 river pollution, 186 Russian production, 260 speciality surfactants ( $\rho_{x'}$ ), 459 tall oil as raw material ( $\rho_{x'}$ ), 450 toolthpaste requirements ( $\rho_{x'}$ ), 450 toothpaste requirements ( $\rho_{x'}$ ), 459 trans: toompane requirements to the properties in serum, action (p.r.), 214 molecule separation, 348
Diarrhera, Furexone, 470
Diphtheria toxoid, concentration by ultrafiltration, 494
"Disinfectants and Disinfection," 494

\*\*Disinfectants and Disinfection,"
by A. H. Walters (p.r.), 73, 213, 380

Disinfectants:
bactericide/leucocide ratio, evaluation of (p.r.), 216
Anaphthol derivatives (p.r.), 215
Distillation research programme, ABCM-BCPMA, 232
Distillation, vetivert, 240
Distillers Company (Biochemicals) Ltd., Speke, expansion, 190
Distillers Co., Carshalton, service laboratories, 325
Distoly cough tablets, 139
Diversey (U.K.) Ltd., buy Deosan, 174
Dominican Republic:
cosmeties factory, 43
soap and toothpaste factory, 383
Dracones for carrying chemicals, 276
"Drug Action, Modifying the Duration of," 407
Drugs: Drugs: Drugs analysis (p.r.), 128, 291, 500 approved names, 40, 88, 176, 339, 422 carcinostatic, 47 exports 1958, 91 new confusion, 473 purchase tax exempt, 41 D.S.L.R.: 300 purchase tax exempt, 41 D.S.L.R.: 300 purchase tax exempt, 41 purchase tax exempt, 42 purchase tax exempt, 42 purchase tax exempt, 41 purchase tax exempt, 42 purchase tax exempt, 41 purchase tax exempt, 42 purchase tax exempt, 41 purchase tax exempt, 42 purchase tax exem D.S.I.R.: Microbiology Group to be dispersed, 30 research plan 1989-64, 39, 231 Warren Spring Laboratory, 278 Duncan, Flockhart, new laboratories, 68, 190 Dyes for nylon, 427 Dyestuffs, monoazo (pat.), 344

Education, wider, for scientists, 392

"Electronic Techniques in Pharmacology,"
by G. W. Cambridge, 453

"Emetine and Related Alkaloids," 286
Epoxide products (ptl.), 344

"Essential Oils of the Belgiam Congo "-1-25-2,
by Steffen Arctander, 69
Essential oils:
analysis (p.r.), 124, 294, 331, 502
Argentine, 425
atractylis oil (p.r.), 332
citral (p.r.), 329
fennel oil (p.r.), 329
geraniol from turpentine, 46
geranium, Congo, 70
International Organisation for Standardisation,
43
Lavendin (p.r.), 329
lemon (p.r.), 332
lemongrass, Ceylon, 415
lemongrass, Congo, 72
leptospermum critoriodes (p.r.), 332
nerol from turpentine, 46
pinus syptestris (p.r.), 330
spectrophotometry, 156
spectrophotometry, 156
spectrophotometry, 156

Essential oils (continued)
vetivert, Congo, 71
vetivert, Reunion and Belgian Congo, 240
wine lees oil (p.r.), 329
See also Perfumers
Ethicon radiation sterilisation project, 437
Ethylene oxide, manufacturing processes, 245
'Ethylene Oxide and Trichlorethylene from Acetylene," 288
European Common Market and British chemical
industry, 420
Evans Medical Ltd.:
expansion, 190
new facilities for making ointments and powders,
80 acilities for making ointments and powders,
180
new research laboratories, 287
'Expansion in the British Pharmaceutical Industry,"
189
Exports, chemical industry's problems, 143
Exports, drug, 1958, 91

Factory extension, 507
new factory at Bournemouth, 239
Factory rebuilding, 303
"Fatty Acids, Manufacture by the Soda Saponification process,"
by A. Vickery, 107
Fermentation, continuous, 149
Ferrous sulphate (βx,), 119
"Fertillisers and Plant Nutrients,"
by D. P. Hopkins (βx,), 27, 121, 211, 371, 498
Fertillisers
ammonia solutions (βx,), 27
Fisons' plant (βx,), 27
Fisons' plant (βx,), 27
Fisons' plant (βx,), 372
Fisons' plant (βx,), 122
granulation (βx,), 122, 373, 499
grasulation (βx,), 122, 373, 499
grasulation (βx,), 122, 373, 499
grasulation (βx,), 122
magnesium, 498
manufacturing processes, 498
molybdenum, 212
nematocide combinations (βx,), 27
nitrogen:
corrosion (βx,), 27
losses from soils (βx,), 28
(βx,), 372
non-phosphate (βx,), 121
NP and NPK liquid, 498
nutrient uptake and plant growth (βx,), 28
optimum use (βx,), 371
phosphate:
availability in rice culture (βx,), 28
concentration (βx,), 373
use (βx,), 211
plosphoric acid, solvent process, 213
plants, three new British (βx,), 372
potash, 498
potash and mildew infection (βx,), 372
scented, 3
Shell factory, Stanford-le-Hope, 265
sodium uptake, 499
sulphur needs of grasses and clover, 212
superphosphate manufacturing process (βx,), 27
right survey (βx,), 211
Filtration:
agar films as ultrafilters, 493
gel, 348
Fire chemicals, analysis (βx,), 500
Fire prevention:
alarms, 65
automatic detection, 64, 432
boots, protective, 67
engines, 66
explosion suppression, 64
extinguishing powder (βxt,), 344
fire-proof construction, 66
flameproof electrical system, 67
hoses, 66
in laboratories, 49
lamps, portable, 67
organisation and equipment, 63
plant design, 61
process hazards, 62

organisation and equipitient, 63
plant design, 61
process hazards, 62
"Fires in Chemical Works, How to Prevent,"
by F. E. T. Kingman, 61
Fleck, Sir Alexander, views on nationalisation, 304, 465
Floor marking tape, 139
Flumethiazide (ρ,r.), 328
Food additives, U.S. law, 144
Food, antibiotic preservative (ρ,r.), 163
France, DuPont weedkiller company, 469
Fuel oil additive, 181
Fungal growth in tolu syrup (ρ,r.), 76
Fungicides:
aspergillus inhibitor (ρ,r.), 369
Bordeaux mixture, preparation of (ρ,r.), 77
botrytis control, 368
determination of (ρ,r.), 124
for food, 411
mercury contamination of fruit (ρ,r.), 77
phenyl mercuric chloride for apple black spot
(ρ,r.), 161
phenyl mercuric for orchards (ρ,r.), 77
(ρ,r.), 290

Fungistats, Amotal, 427
"Furniture, Fittings and Equipment for the Modern Laboratory," 314

GALLENKAMP-TOWERS merger, 338

"Gelatine and Animal Glue, Determination of the Moisture Content of," Williams, 374

Gelatin: for hard capsules, 234
 thiolated, 181

Gelling agents for pharmaceutical suspensions, 153

Germany: cosmetic chemists conference, 341
 petrochemicals plant, new, 138, 225

Germicides, surface-active iodine complexes as, 75

Ghana insecticides factory, 512

Glavo Laboratories Ltd., Greenford, expansion, 190

Glue, moisture determination, 374

"Glycols and Polyglycols," by Leon Raphael

1—Chemistry and Manufacture, 245

2—Propertics, 285

3—Applications, 320

Glycols, physical properties, 246

Grass syrup, source of drugs, 389

H. AMOGLOBIN, antibacterial activity (p.r.), 215
Hailsham, Lord, Minister for Science and Technology, 431
"Hard Gelatin Capsules—How Eli Lilly make 500
million a Year,"
by W. G. Norris, 233
Heating and Ventilating Plant and Insulating
Materials," 113
"Heating and Ventilating Systems for Chemical
Factories, The Choice of,"
by J. E. Greatores, 109
Hibitians for solutions, 180
Hinchcliffe report, 229
Holland:
antibiotics plant, new, 225
cosmetics congress, 511
Polak and Schwarz merger, 92
Hong Kong, pharmaceutical factory, 269
Syrmones:
chromatographic separation (p.r.), 125
contraception, 390
microbial assay (p.r.), 73
crstrogen hazards for livestock, 264
plant growth, analysis (p.r.), 73
crstrogen hazards for livestock, 264
Humgary:
themical production to double, 469
new drugs, 43
Hydrochloric acid, new process, 511
Hydrogen peroxide made by autoxidation, 31
Hypertension:
bretylium tosylate, 386
diuretic-antihypertensive, 180
flumethiaride, 388
lypotensives, 139 (p.r.), 328
Ismelin, 470
Seepant Exidex, 427
treatment of (p.r.), 117
Trophenium, 427

Alkali Division laboratory extension, 177
Annual review, 224
Board changes, 340
Chambers, S. P., 304
fertiliser plant (px.), 372
Fleck, Sir Alexander, 304, 465
laboratory animals, 351
olefines plant, 380
Import duty exemptions, 88
India:
antibiotic production (px.), 164
dyestuffs plant, 270, 383
polythene plant, 270
Inks, printing, 322
'Insecticides, Formulation of Aerosol,''
by Wm. Mitchell, 101
aerosols formulation, 101
Insecticides:
bean aphid (px.), 76
Deless (px.), 160
Divoss (px.), 160
Divoss (px.), 160
granulated (px.), 289
Malathion, 289
microbial (px.), 289
Malathion, 289
microbial (px.), 161
point, 386
parathion hazard (px.), 162
Phopbamiston (px.), 160
pyrethins (px.), 161
rotenone (px.), 290
silica dust (px.), 162

Insecticides (continued)
soil residues and uptake, 410
sugar beet, protection (p.r.), 289
wheat-bulb fly control (p.r.), 76
"Instrument Users Meet Instrument Makers"—
Scientific Instrument Manufacturers Associawheat-bulb fly control (p.r.), 76
"Instrument Users Meet Instrument Makers"—
Scientific Instrument Manufacturers Association convention,
by A. J. Young, 10
"Instrumentation, Euture Trends,"
by J. D. Tallentire, 11
Instrumentation, Russian, 187
"Instruments and Apparatus at the Physical Society Exhibition," 18
Instruments and Apparatus:
analyser, gas, ICIANZ, 511
balance, ultra micro, 20
batch counter, 19
bunsen burners, 317
camera, 70 mm. film, 21
chromatographic computer, 333
chromatographic computer, 333
chromatographic equipment, 318
chromatography:
column, 18
drying oven, 417
paper, 18
VPC apparatus, 19
cleaner, ultrasonic, 18
colony counter, 313
countercurrent apparatus, automatic, 21
detector, proximity, 18
diffraction gratings, 21
efficiency measurement, 13
effluent monitor, 19
electrophoresis, 18
flowmeters, 12
fraction collector, automatic, 21
gas analyser, anæsthetic, 313
hydrometers, 317
hygrometer, 463
Interkey stopcocks, 316
Karl Fischer equipment, 313
leak detector, vacuum, 19
meter, daylight, 128
microammeter, 313
microdissectors, 21
micromosope:
lamps, 21
micrometer, double-image, 20 microdisectors, 21
microscope:
lamps, 21
microscope:
lamps, 21
microscope:
lamps, 21
micrometer, double-image, 20
sterescopic, 21
nuclear magnetic resonance equipment, 19, 20
oxygen analyser, 18
et in tetrs:
British Standard, 467
laboratory, 127
portable, 21
polarograph, 18
polarographic electrode, 20
pressure gauge, differential, 20
pressure measurement, 20
process analyser, 11, 263
refractometer, continuous-flow, 417
scintillation counters, 18, 20
scintillation scinters, 19
spectrophotometer, recording, 21, 333
spectroscopy, A-A, 378
storage tubes, daylight viewing, 19
strain-gauge load cells, 12
tablet testers, 319
temperature controller:
indicating, 38 tablet testers, 319
temperature controller:
indicating, 38
proportional, 218
temperature transmitter, patitration, automatic, 18
titration stand, 377
toxic vapour detection, 447
ulation:
asbestos. 114 itter, pneumatic, 21 asbestos plus silica, 116 astrestos pius silica, 116 magnesium compounds, 116 pipe, 116 roof lining, 116 silica fibre, 115 sprayed asbestos, 116 alin: sprayed asbestos, 116
nuulin:
bioassay, 482
substitutes;
salicylates, 282
sulphonamides, 281
sulphonamides, 281
sulphonylureas, 282
tablets, 511
'Insulin Substitutes, The Search for,"
by R. B. Hunter, D. M. Shepherd and J. M.
Stowers, 280
'Interferon—A New Approach to Virus Chemotherapy,
by D. G. Burke, 194
SIS appointments register, 421 ISIS appointments register, 421 Iso-decanoic acid, 470 Israel: Israet: nitric acid plant, 92 phosphorous plant, new, 138 Italy, Colgate-Palmolive's new factory, 497 Izal laboratory, new, 133

JEYES Sanitary Compounds Co. Ltd. new warehouse, 422 KNOX, John, Ltd., Stoke-on-Trent, expansion, 190

ABORATORY:
animals, disease-free, 351
design:
microbiology, 311
organic analysis, 307
fittings, plastics, 315
furniture, 314, 315, 316, 379
hot plates, 318
ware:
platinum, 317
"Pyrex," 316
"Lactic acid Purified by New Solvent Extraction Process," 249
Laporte hydrogen peroxide plant, 31
Laporte Titanium, titanium oxide extensions, 507
Laxative, contact (\$\rho\_{\circ}\$,), 323
Learning machines, 1
"Lemongrass Oil from Ceylon,"
by M. G. De Silva, 415
Leprosy, Dapsone (\$\rho\_{\circ}\$), 120
Librarians and information officers, 129
Life assurance, drugs, effect, 509
Livestock, cestrogen hazards, 264
Lysine as food supplement, 3

Mageraf, history, 476
Management consultants, 348
Marggraf, A. S., 280th anniversary, 100
May and Baker Ltd., Norwich and Dagenham,
expansion, 190
Merck Sharpe and Dobme Ltd., Hoddesdon, expansion, 91
Mexico, citric acid plant, 424
Microbes, effect of plantic an (p.r.), 74
Middle East, export advice, 480
Middleton and Co., new premises, 807
Midel Laboratories, research centre, 507
Monanto Chemicals Ltd.:
maleic anhydride plant, 87
polythene plant, 388
Ruabon expansion, 191
Morson, Thomas:
history, 480
organic chemicals plant, 191, 448
Mothproofing, Diebnoth, 226

Namics for drugs, approved, 40, 88, 178, 339, 422
Names, non-proprietary, guidance on, 221
Nasal cream, 512
Nasal decongestant, 512
National Health Service:
drug price control and N.H.S. savings, 220
drug prices debate in Parliament, 173
prescribing costs (Hinchiffe), 229
private patients, drugs for, 474
Nematocides (p.r.), 160
No-Mercapit, anti-thyroid drug, 180
No-Mercapit, anti-thyroid drug, 180
No-Newton Chambers, new factory and laboratories, 507
Non-Newtonian fluids, 277
Non-Newtonian fluids, 377
Non-

OINTMENTS, Evans Medical's new plant, 80

"Olfaction—A Comparison of Homogeneous and
Heterogeneous Adaptation,"
by R. W. Moncrieff, 22

Olfaction, mechanism (p.r.), 330

Ophthalmic ointments, bacteria in (p.r.), 73

Ophthalmic ointments, sterility of (p.r.), 214

Optical whiteners, cost, 88

Organic chemicals plant, Thomas Morson's, 448

"
ACKAGING Corrosive Chemicals,"
by C.H. Bulmer and S. T. Hurley, 387
Packaging:
aerosols, 382
aerosol cans, aluminium, automatic manufacture,
227
ampoule pack, 300
aromatics, influence on packaging (p.r.), 332
bath tablets, 137
blood plasma, 137
blood plasma, 137
boards and papers, 384
bottles, plastic, 227
calculator pack, 426
"Carbion" corrugated packaging, 300
caps, counting device, 484
cases, 363
chemicals, 349

Packaging (continued)
closure, poll-push, 137
collapsible tubes, 232, 362
detergent dispenser, 299
drums, 363
drums for corrosives, 426
Exhibition Review, 362
face pads, lined pack for, 137
fibre drums for luquids, 227
fibreboard bulk containers, 434
filling machinery, 389, 389
labelling machinery, 389, 384
lipstick container, 426
machinery, 334, 364
plastics boom, 99
plastic containers, 362
polyester film tapes, 227
polystyrene:
capped corks, 299
tubes, 137
polythene bottles, thin wall, 428
printing machinery, 395
scalers, 300, 333
tape dispenser, 299
tapes and foils, 363
tube caps, 137
vials and bottles, 362
Parke, Davis and Co. Ltd., Hounslow, expansion, 191
Parkinsonism treatment, 512
PAS, palatable, 226
Patent dispute, tetracycline, 222
Patents, new, 48, 96, 140, 184, 228, 274, 302, 345, 387, 430, 472, 513
Patents, Pharmaceutical and Medical," 406
"Perfumer's Odyssey":
"Essential Oils of the Belgian Congo," 25, 69
"Vetivert in Reunion and the Belgian Congo," by Steffen Arctander, 240
"Perfumery and Cosmetics, New Raw Materials for," by V. Vasic, ot.k., 397
"Perfumery:

"A Factory Which Serves the Perfumer," by W. G. Norris, 393
analysis, 156
aromatic chemicals manufacture, 394
aromatic chemicals manufacture, 394
aromatic chemicals manufacture, 394
aromatics chemistry, of (p.r.), 330
cinnamic aldehyde, 401
civet (p.r.), 329
civet substitute, 403
Givaudan's Whyteleafe factory, 393
oionness from citral, route (p.r.), 330
cinnamic aldehyde, 401
civet (p.r.), 329
civet substitute, 403
Givaudan's Whyteleafe factory, 393
oionness from citral, route (p.r.), 330
cinnamic alcehyde, 401
civet (p.r.), 329
civet substitute, 403
See also Essensial Oils
Perfumer:

by D. See also Essensial Oils
Perfumer:

by D. See also Essensial Oils
Perfumer:

shape page and sealing, 382
sun-tan preparations, 490 opopomax specialities, σσ orange-blossom extract, 402
Vertilal C, 180
Perfumes:
bath preparations, 367
fertilisers, 3
sun-tampreparations, 490
Perfumes for Cosmetics,
by V. Vasic
4—Decolorants and Antiperspirants, 237
3—Bath Preparations, 366
6—Sun-tan Preparations, 480
Pert control Chemicals,
by D. P. Hopkins (βσ, 1), 76, 160, 289, 410
Pesticides:
acaricide (βσ, 1), 78
advisory centre, 468
arsenicals, health risks (βσ, 1), 79
barthrin and isomers, 410
demeton-methyl, safety recommendations, 132
determination (βσ, 1), 124
disinfectants for seed potatoes (βσ, 1), 78
red spider killer (βσ, 1), 78, 410
nematocides (βσ, 1), 29, 109
ovicides, for mite (βσ, 1), 78
red spider killer (βσ, 1), 78
retroleum chemicals, Easo's new plant, 42
Přízer Lid., Folkestone and Richborough, Kent:
expansion, 192
retroleum chemicals, Easo's new plant, 42
responsor, 40
Přízer Forge a Link Between Research and Production, 40
Přízer Forge a Link Between Research and Production, 40
Přízer Forge a Link Between Research and Production, 40
Přízer Forge a Link Between Research and Production, 40
Přízer Forge a Link Between Research and Production, 40
Přízer Forge a Link Between Research and Production, 40
Přízer Forge a Link Between Research and Production, 40
Přízer Forge a Link Between Research and Production, 40
Přízer Forge a Link Between Research and Production, 40
Přízer Forge a Link Between Research and Production, 40
Přízer Forge a Link Between Research and Production, 40
Přízer Forge a Link Between Research and Production, 40
Přízer Forge a Link Between Research and Production, 40
Přízer Forge a Link Between Research and Production, 40
Přízer Forge a Link Between Research and Production, 40
Přízer Forge a Link Between Research and Production, 40
Přízer Productical Don

Pharmacy, and Poisons Act, changes in Poisons List and Rules, 41 Photographic chemicals (pst.), 344 Photographic stain remover, 512 Physical Society Exhibition, 18 "Plant and Equipment in Rubber and Plastics," 255 Plant and Equipment in Rubber and Plastics,"

aerosols, filling plant, 37
agitators, drive for, 262
air conditioners, 319
air velocity indicators, 377
ampoule washing and filling, automatic, 127
ash extractor, 463
automatic, requirements for, 16
ball-conveyor, 417
barrel skid, 38
boilers, automatic, 113
bottle rinser and dryer, 295
carton over-printer, 335
centrifuge, continuous, 84
check-weigher, automatic, 219
comminutor, Fitzmill, 263
condenser, graphite, 417
conveying system, sonic, 333
crystalliser, drum, 463
deioniser, 295, 379
drum opening tool, 127
drums, melting out fats from, 128
elevator truck, 218
extractor, sample, 334
fans;
hollow plastic, 377 Plant: hollow plastic, 377 p.v.c., 255 p.v.c., 255
filler:
powder, 378
sterile, 171
filters, 38, 171, 219
forther, 38, 171
fume absorption, 47
fume cupboards, 255, 315
gas the cutter, 237
das-lined vessels, 218
granulator, oscillating, 172
handling acid, 504
heat exchangers:
graphite block, 37
plate, 127
heat transfer tubes, 113
homogenier, ultrasonic, 297
incinerator:
automatic, 463
smokeless, 417
incubator:
metabolic shaking, 318
wide range, 318
indicator, visual flow, 297
label gumming machines, 38
labeller, automatic, 334
materials handling, 296
melting point apparatus, 504
meter, water contamination, 4
meter, wat materials manufing, 304
meterials manufing, 304
meter, water contamination, 85
mills:
automatic and semi-automatic lab
centrifuge, stainless, 505
cone type, 172
misers, 127, 171, 318, 319, 463
pipe line, 84, 335
vibratory, 297
mixing and metering powders, 85
nitric acid from tail gases, 282
nitrogen liquid, container for, 172
nitrogen, self-contained plant for, 128
oven, laboratory, 504
packaging machinery, 334
pipe coupling, quick-acting, 172
plastics, 250
plug, electric, variable control, 335
powder filling gun, 218
pumping set, 172
pumps:
automatic metering, 295
Autostart, self-priming, 488
axial flow, Kestner, 488
Chempumps, glandless, 489
diaphragm, 483
glandless, 334, 484
materials of construction, 483
Meader, 488
mechanical seals, 484
metering, 487
piston-diaphragm, 487
plastic lined, 257
p.v.c., portable, 487
Simpulsic, 488
solids, pumping of, 486
stuffing boxes, 484
variable capacity, 18
zero leakage, 335
rating of, revised, 136
rubber and ebonite linings, 254
rubbers, 259
scale, constant rate feed, 295
sieves, test, 316
still, molecular, 19
tablet drycoating machine, 334
tablet duster, 504
tableting, high speed, 464
tanks, armourplate glass, 85
tap, drip-proof, 379
tin printer, 37 melting point apparatus, 504 meter, water contamination, mills: atic laboratory, 37

Plant (continued)
tin scaler, 296
trolley, elevating, 377
valves:
corrosion-resistant, 218
cylinder operated, 263
rotary air-lock, 84
"Plastics and Rubber in Chemical Plant,"
by T. A. Watson, 250
Plastis:
carbamide foam wound treatment, 275
coatings, protective, 256
corrosion resistance, 250
polythene, high density, 256
2-vinyl pyridine as intermediate, 208
Poisons list changes, 339
Polio vaccine:
Lederle's oral, 305
oral (Sabin), 185
Salk, U.K. production, 185
Wellcome Foundation invest £640,000, 87
"Polio Vaccine, The Complex Process of Making and Testing," 209
"Polio Vaccine, The Complex Process of Making and Testing," 209
"Polio Asceine, The Complex Process of Making and Testing," 209
"Polio Asceine, The Complex Process of Making and Testing," 209
"Polio Asceine, The Complex Process of Making and Testing," 209
"Polio Asceine Plant, Pfizer's £1 million, Now in Full Production," 154
Polish, distornite, 139
Port Talbot Chemical Co., benzole plant, 510
Prescribing coats—Hinchliffe report, 229
Prescribing, coats—Hinchliffe report, 229
Prescribing, dones of illegible, 391
Preservatives, antimicrobial [ps.), 74
Price's (Bromborough), new fatty acids plant, 39, 107
Process control by learning machine, 1
"Process Control, Computers and,"
by C. H. Copley, 14
Promotion chics, A.B.P.1., 230
Protein and drugs, from vegetable material, 389
Pruritus treatment, 512
"Pumps, Chemical,"
by W. F. Riester, 483
"Pumps for the Chemical Industry," 487
Pyrrole chemistry, history, 306

Quality control, defects, 51 Quaternary ammonium chlorides as textile softeners

"RADIATION, Chemical Protection Against," by M. J. Ashwood-Smith, 354
"Radiation Sterilisation of Pharmaceuticals,"
"Radiation Sterilisation of Surgical Sutures," 437
by D. B. Powell, 435
Radioactivity:
effect on pharmaceuticals, 436
gamma ray sterilisation of pharmaceuticals, 389
micro-organisms susceptible to, 435
Radiochemical Centre reorganised, 174
Rainmaking, 349
"Rauwolfia, A Guide to African,"
by W. E. Court and G. E. Treasex, 53
Research:
British drug firms handicapped, 97
costs, 1
D.S.I.R. plan 1959-64, 231
national policy, 473
Resian in hair spray, hazards, 347
Rexall Drug Co. acquire Carnegies, 87
Rheology, cosmetics, 503
Rheology cosmetics, 503
Rheology theory, 277
"Riker Laboratories' New Factory," 457
Ringworm, griseofulvin treatment, 271
"Rubber and Ebonite Linings," 254
Rubbers, corrosion resistance, 250
Russia:
detergents industry, 260
drugs and perfume exports to U.K., 380
instrumentation, 187

SACCHARIN:
in soft drinks, ban proposed, 99
U.K. production 1957-58, 99
Safety:
boiler control equipment, 446
breathing apparatus, 445
chemical hazards, 441
drug extraction, 442
explosion prevention, 445
flameproof clothing standards, 224
flameproof heating, 445
flooring, non-slip, 445
hair spray hazards, 347
household chemicals, 304
I.C.I. film, 98
in fine chemicals factory, 441
laboratory gloves, 335

Safety (sontimed)
ladders, 446
protective clothing, 446
solvents, 444
switches, flameproof, 446
Safety Equipment Review, 445
Science and technology, national policy, 473
Science arriving, 4
Sciencists, manpower survey, 510
Scerae, Wellome plant, 200
Shampoo, medicated, 139
Sheep, vitamin effects, 391
Shell fertilizer plant, 372
Skin disinfection (px.), 369
Smith Kline and French Laboratories Ltd., Welwyn Garden City, expansion, 192
Smith Kline and French Research Institute, 97
Smoke pollution in U.K., 131
Soap:
additives (l.), 86, 398
antioxidants, 324
Australian output, 511
Colgate-Palmolivé, Italian factory, 497
improved (px.), 489
multicoloared, 159
U.K. consumption (px.), 269
Soda saponification, fatty acids, 107
"Solvents and Safety," 444
Soporific, paediatric, 139
South Africa:
drugs, search for new, 92
fertilizer factory, 424
Klipfontein Organic Products Gorp, turnover, 179
Klipfontein Organic products, 511
medicine costs, 179
medicine distribution, 178
Přízer factory, 178
phosphate industry planned, 424
Smith and Nephew, factory, 511
soda ash plant, 225
Spain, cosmetics section of National Association of Spanish Chemists formed, 43
Spore heat resistance (px.), 370
Stapolylococcal outbreaks, role of antibiotics, 87
Steroids, analysis (px.), 801
Steroid compounds (pat.), 344
Sturge, John and E., new laboratories, 507
Sulphonamides:
βimez, 470
Madribon (px.), 328
N° - Acetyl - N° - 3,4 - dimethyl - 5 - isoxazolylsulphanilimide, new laboratories, 507
Sulphonamides:
βimez, 470
Madribon (px.), 328
N° - Acetyl - N° - 3,4 - dimethyl - 5 - isoxazolylsulphanilimide, new laboratories, 507
Sulphonamides:
βimez, 470
Madribon (px.), 328
N° - Acetyl - N° - 3,4 - dimethyl - 5 - isoxazolylsulphanilimide, production of (pat.), 344
Surface Active Agents, Amphoteric,
βy D. Basa, 105
Surface active Agents, Amphoteric,
βy D. Basa, 105
Surface active Agents, Amphoteric,
βy D. Basa, 105
Surface Active Agents, Amphoteric,
βy D. Surfaces, Active Agents, Amphoteric,
βy D. Surfaces, Active Agents, Amphoteric,
βy D. Surfaces

(d) 456
in cosmetics, 397
Suspensions, formulation, 152, 153
Sutures, radiation sterilisation, 437
Sterilisation:
drugs, radioactive, 389
radiation, cost, 437
Wantage radiation plant, 435
Sweden, Albright and Wilson's new agents, 422
Switzerland, and Wilson's new agents, 422
Cyanamid's basic research institute, 178
Du Pont sales H.Q., 178
Kingshill Pharmaceuticals Inc., 511

TABLETS coating process, new, 138
Talcum powder, sterilisation of (p.r.), 73
Test tubes, British Standard, 467

Test tubes, British Standard, 467
Tetanus toxin, concentration by ultrafiltration, 494
Textile softeners, 475
Thailand pharmaceutical industry planned, 425
"Therapeutics,"
by S. J. Hopkins (ρx), 117, 326
Tizard, Sir Henry, obituary 467
Toilet preparations, male market, 142
Tooth erosion in industry, 294
Trade, international, in pharmaceuticals, 466
Trade Marks, New, 47, 96, 140, 184, 228, 274, 301, 346, 388, 430, 471, 513
Tranquillisers:
188
analysis (ρx), 291
sales, Pharmaceutical Society ruling, 338
Trichomoniasis (ρx), 119
Trichuriasi treatment (ρx), 327
Trinitroethylamides, production (ρal.), 344
Trefanil, in treatment of melancholia, 180
Tropical medicines, Boots' Research, 482
Tuberculosi, isonicotinic derivative for (ρx.), 328
Turkey, chemical needs, 2

ULCERS, carrageenin, 470 Unilever, employment with, 432 Union Carbide, petrochemicals plant, 509
United States:
chemical industry research budget, 179
Colgate-Palmolive expansion, 511
Colgate laboratory, 424
Hazardous Substances Labelling Bill, 92
lipstick colours banned, 469
pharmaceutical progress, 52
solvents from lignin, 425
sulphur exports rise, 92
Union Carbide Research Institute, 469
Yardley's laboratories, 341
Uramia, norethandrolone in (p.r.), 119

VACCINES:
common cold, 270
"husk," 180
influenza, 139
production, investment in U.K., 141
Welkome plant, 200
See also Polio Vaccine
Valoid anti-nausea drug, 298
Ventilating systems for chemical factories, 109
Veterinary medicines:
Helmox reformulated, 298
husk, anthelminite for, 299
husk vaccine, 180
lamb elixir, 46
sheep dip, 298
vitamin-mineral supplement for poultry, 180
"2-Vinylpyridine—Versatile Intermediate,"
by E. R. Wallsgrove, 206
Virus chemotherapy, interferon, 194
Virus, influenza, inactivation (6x-1), 371
"Vitamin Products: Trends in Formulation and Presentation,"
by G. R. Wilkinson, 477
Vitamins (9x-1), 128, 292, 501
B<sub>1</sub>, stabilisation, 477
capaules, 478
D<sub>2</sub> injections improve sheep growth, fleeces, 391
formulation, 477
grass source, 389
medical status, 478
oral products, 477
packaging, 478
pellets, 478
proprietaries, composition of, 479
tablets, 478

Wall, John, 200th anniversary, 276
Wall, John, 280th anniversary, 4
Wansfrough-Jones, Sir Owen, to open Corrosion
Exhibition, 89
Ward Cason buy factory, 173
Warren Spring Laboratory, 174, 278
Water conservation, 391
Water treatment, tablet tests, 271
Waxes, toxicity of, 41
Waces, toxicity of, 41
Du foot form (p.r.), 291
clover control, 299
2: 4 D intermediate, 46
Dulopon (p.r.), 161
Du foot to make in France, 469
Hobison 5 (p.r.), 160
Interton (p.r.), 160
Interton (p.r.), 160
Simazine, 98
triazine, 98
triazine, 98
triazine compounds (p.r.), 411
Wellcome:
complete second phase of £2 million building programme, 193, 198
research costs, 268
Trust grants, 465
Whitch "—assessments of chemical products, 49
Work study language, 489
Wyeth, John, and Brother Ltd., Havant, expansion, 133

XEROPHILIOUS plants as source of drugs, 232

ZING, antibacterial (p.r.), 369

## **AUTHOR INDEX**

Arctander, Steffen:
"Perfumer's Odyssey. Essential Oils of the Belgian Congo.—1," 25; 2, 69
"Verivert in Reunion and the Belgian Congo," Kingman, F. E. T.:

"How to Prevent Fires in Chemical Works," 6
Krajkeman, A. J.:
"Perfumery and Essential Oils, 329 240
Ashwood-Smith, M. J.:
"Chemical Protection Against Radiation," 354 Levin, R.:
"Antibiotics," 162 Bass, D.:
 "Amphoteric Surface-Active Agents," 105
Bennett, S. F.:
 "Home Made Analytical Equipment Demonstrated," 313
Brooks, John:
 "Cosmopoetics," 492 Mitchell, Wm. Mitchell, Wm.:

"Formulation of Aerosol Insecticides," 101

Moncrieff, R. W.:

"Olfaction—A Comparison of Homogeneous and Heterogeneous Adaptation," 22

Myddleton, Wm. W.:

"British Congress of Cosmetic Science," 156, 204

"Cosmetics and Toilet Preparations," 29, 412 Brooks, John:

" Cosmopoetics," 492

Bulmer, C. H.:

" Packaging Corrosive Chemicals," 357

Burke, D. C.:

" Interferon—A New Approach to Virus Chemotherapy," 194 Norris, W. G.:
"A Factory Which Serves the Perfumer," 393
"Hard Gelatin Capsules," 233 Cambridge, G. W.:

"Electronic Techniques in Pharmacology," 453
Copley, C. H.:

"Computers and Process Control," 14
Court, W. E.:

"A Guide to African Rauwolfia," 53 Oxtoby, R. W.:
"A Pharmaceutical Industry for Burma," 5 Powell, D. B.: "Radiation Sterilisation of Pharmaceuticals," 435 Price, Stanley:
"How to Avoid Accidents in a Fine Chemicals Factory," 441 Davey, D. G.:

"A New Venture in Breeding Laboratory
Animals for Pharmacological Research," 351

Day, F. T.:

"Improved Labelling and Sealing," 359

De Silva:
"Lemongrass Oil from Ceylon," 415 Raphael, Leon:
"Detergents and Detergency," 258, 459
"Glycols and Folyglycols," 245, 285, 320
Riester, W. F.
"Chemical Pumps," 483
Ruemele, T. A.:
"Non-irritant Depilatories," 68 Eastoe, J. E.:
"The Determination of the Moisture Content of Gelatine and Animal Glue," 374 Shepherd, D. M.:
"The Search for Insulin Substitutes," 280
Stephen, W. I.:
"Analytical Chemistry," 124, 291, 500
Stowers, J. M.:
"The Search for Insulin Substitutes," 280 Flint, G. A.:

"Agar Films as Ultrafilters," 493
Forbes, O. C.:

"Agar Films as Ultrafilters," 493 Sykes, G.:
"The Design of Microbiology Laboratories," 311 Greatorex, J. E.:
"The Choice of Heating and Ventilating Systems for Chemical Factories," 109 Tallentire, J. D.:

"Future Trends in Instrumentation," 11
Thorley, J. F.:

"How Biochemical Engineering Can Cut Costs in Antibiotics Manufacture," 145
Trease, G. E.:

"A Guide to African Rauwolfia," 53 Haddock, L. A.:

"Seven Methods of Determining the Active Constituent of MCPA Weedkillers," 57

Hastings, J. J. H.:

"How Biochemical Engineering Can Cut Costs in Antibiotics Manufacture," 145

Hill, R.:

"Seven Methods of Determining the Active rill, R.:

"Seven Methods of Determining the Active Constituents of MCPA Weedkillers," 57

Hopkins, D. P.:

"Fertilisers and Plant Nutrients," 121, 211, 371

"Pest Control Chemicals" (p.r.), 76, 160, 289, 410

Hopkins, S. I. Vickery, A.:

"Manufacture of Fatty Acids by the Soda Saponification Process," 107 410
Hopkins, S. J.:

"British Pharmaceutical Conference," 406
"Therapeutics," (p.r.), 117, 326
Hunter, R. B.:

"The Search for Insulin Substitutes," 280
Hurley, S. T.:

"Packaging Corrosive Chemicals," 357 Walligrove, E. R.:

"2-Vinvlpyridine-Versatile Intermediate," 206
Walters, A. H.:

"Disinfectants and Disinfection," 73, 213, 369
Watson, T. A.:

"Plastics and Rubbers in Chemical Plant," 250
Wilkinson, R. G.:

"Vitamin Products: Trends in Formulation and Presentation," 477
Williams, A. P.:

"The Determination of the Moisture Content of Gelatine and Animal Glue," 374 Ingram, G.:
"The Design of Organic Analytical Laboratories," 307 Jack, David:
"Pharmaceutical Dispersions of Solids in Liquids," i51
Jones, A. G.:
"Seven Methods of Determining the Active Constituents of MCPA Weedkillers," 57

Young, A. J.:
"Instrument Makers Meet Instrument Users," 10